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1 Static resource models for code-size efficient embedded processors
  Qin Zhao, Bart Mesman, Twan Basten
  May 2003 ACM Transactions on Embedded Computing Systems (TECS), Volume 2 Issue 2
  Publisher: ACM
  Full text available: 📄 pdf(651.62 KB)   Additional Information: full citation, abstract, references, index terms

  Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Citation Count: 0

  Due to an increasing need for flexibility, embedded systems embody more and more
  programmable processors as their core components. Due to silicon area and power
  considerations, the corresponding instruction sets are often highly encoded to minimize
  code ...

  Keywords: Static resource models, constraint analysis, convex hull, phase coupling,
  scheduling

2 Effort profiles in multi-agent resource allocation
  H. Van Dyke Parunak, Sven Brueckner, John Sauter, Robert Savit
  July 2002 AAMAS '02: Proceedings of the first international joint conference on Autonomous
             agents and multiagent systems: part 1
  Publisher: ACM
  Full text available: 📄 pdf(336.15 KB)   Additional Information: full citation, abstract, references, index terms

  Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 34, Citation Count: 1

  Multi-agent systems are particularly appropriate for resource allocation, and configuring
  them for efficient operation requires understanding their dynamics. Concepts from
  statistical physics, such as phase transitions, can help. In decision problems ...

  Keywords: complexity, effort profile, negotiation, phase change, phase transition,
  resource allocation

3 Dynamic bandwidth allocation for multimedia traffic with rate guarantee and fair access
   in WCDMA systems
  Chih-Min Chao, Yu-Chee Tseng, Li-Chun Wang

September 2003 MSWIM '03: Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available: pdf(153.83 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 34, Citation Count: 1

Packet scheduling in a WCDMA system poses a new challenge due to its nature of variable bit rates and location-dependent, time-varying channel conditions. In this work, two new downlink scheduling algorithms for a WCDMA base station are proposed to support ...

Keywords: 3G, OVSF, WCDMA, mobile computing, personal communication services, wireless communication

4 A unified framework and algorithm for channel assignment in wireless networks
S. Ramanathan
March 1999 Wireless Networks, Volume 5 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(260.54 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 99, Citation Count: 24

Channel assignment problems in the time, frequency and code domains have thus far been studied separately. Exploiting the similarity of constraints that characterize assignments within and across these domains, we introduce the first unified framework ...

5 Adaptive joint multiuser detection and channel estimation in multipath fading CDMA channels
Xiaodong Wang, H. Vincent Poor
November 1998 Wireless Networks, Volume 4 Issue 6
Publisher: Kluwer Academic Publishers

Full text available: pdf(397.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 59, Citation Count: 4

The problem of joint multiuser detection and channel estimation in frequency-selective Rayleigh fading CDMA channels is considered. First the optimal multiuser detector for such channels is derived, which is seen to have a computational complexity exponential ...

6 Assigning codes in wireless networks: bounds and scaling properties
Roberto Battiti, Alan A. Bertossi, Maurizio A. Bonuccelli
May 1999 Wireless Networks, Volume 5 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: pdf(383.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 17, Citation Count: 9

In the Code Division Multiple Access (CDMA) framework, collisions that can occur in wireless networks are eliminated by assigning orthogonal codes to stations, a problem equivalent to that of coloring graphs associated to the physical network. In this ...

7 Interposed request routing for scalable network storage

February 2002 ACM Transactions on Computer Systems (TOCS),   Volume 20 Issue 1
Publisher: ACM

Full text available: 📄 pdf(363.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 76,   Citation Count: 5

This paper explores interposed request routing in Slice, a new storage system architecture
for high-speed networks incorporating network-attached block storage. Slice interposes a
request switching filter---called a μproxy---along each client's ...

Keywords: Content switch, file server, network file system, network storage, request
redirection, service virtualization

8 Open-loop power control performance in DS-CDMA networks with frequency selective
fading and non-stationary base stations

A. Chockalingam, Laurence B. Milstein
March 1998 Wireless Networks,   Volume 4 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(340.88 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 54,   Citation Count: 1

In this paper, we study the performance of a simple and easy-to-implement distributed
power control strategy applicable to direct sequence code division multiple access (DS-
CDMA) networks. The scheme makes use of the received power measurements made ...

9 Tree multicast strategies in mobile, multishop wireless networks

Mario Gerla, Ching-Chuan Chiang, Lixia Zhang
October 1999 Mobile Networks and Applications,   Volume 4 Issue 3
Publisher: ACM

Full text available: 📄 pdf(285.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 55,   Citation Count: 7

Tree multicast is a well established concept in wired networks. Two versions, per-source
tree multicast (e.g., DVMRP) and shared tree multicast (e.g., Core Based Tree), account for
the majority of the wireline implementations. In this paper, we extend ...

10 A nested transaction model for multilevel secure database management systems

Elisa Bertino, Barbara Catania, Elena Ferrari
November 2001 ACM Transactions on Information and System Security (TISSEC),
Volume 4 Issue 4
Publisher: ACM

Full text available: 📄 pdf(560.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 34,   Downloads (12 Months): 162,   Citation Count: 1

This article presents an approach to concurrency control for transactions in a Multilevel

Secure Database Management System (MLS/DBMS). The major problem is that concurrency control mechanisms used in traditional DBMSs are not adequate in a MLS/DBMS, ...

Keywords: Nested transactions, concurrency control, covert channels, multilevel secure database management systems

11   An uplink CDMA system architecture with diverse QoS guarantees for heterogeneous traffic
Sunghyun Choi, Kang G. Shin
October 1999 IEEE/ACM Transactions on Networking (TON),   Volume 7 Issue 5
Publisher: IEEE Press
Full text available: 📄 pdf(408.20 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 48,   Citation Count: 10

Keywords: CDMA systems, QoS guarantees, admission control, automatic retransmission reQuest, multicode CDMA, power control, reed-Solomon/convolutional concatenated code, transmission-rate request access protocol, wireless/mobile communication

12   Region proximity in metric spaces and its use for approximate similarity search
Giuseppe Amato, Fausto Rabitti, Pasquale Savino, Pavel Zezula
April 2003 ACM Transactions on Information Systems (TOIS),   Volume 21 Issue 2
Publisher: ACM
Full text available: 📄 pdf(1.01 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 63,   Citation Count: 3
Similarity search structures for metric data typically bound object partitions by ball regions. Since regions can overlap, a relevant issue is to estimate the proximity of regions in order to predict the number of objects in the regions' intersection. ...

Keywords: Approximation algorithms, approximate similarity search, metric data, metric trees, performance evaluation

13   Lagrangean based methods for solving large-scale cellular network design problems
Filipe F. Mazzini, Geraldo R. Mateus, James Macgregor Smith
November 2003 Wireless Networks,   Volume 9 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(200.31 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 58,   Citation Count: 3
The cellular network design (CND) problem is formulated as a comprehensive linear mixed integer programming model integrating the base station location (BSL) problem, the frequency channel assignment (FCA) problem and the topological network design (TND) ...

Keywords: algorithms, base station location, cellular network design, frequency channel assignment, optimization

14
Composite model-checking: verification with type-specific symbolic representations

Tevfik Bultan, Richard Gerber, Christopher League
January 2000 ACM Transactions on Software Engineering and Methodology (TOSEM),
        Volume 9 Issue 1
Publisher: ACM

Full text available: pdf(400.17 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                          terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 73, Citation Count: 5

There has been a surge of progress in automated verification methods based on state
exploration. In areas like hardware design, these technologies are rapidly augmenting key
phases of testing and validation. To date, one of the most successful of these ...

Keywords: Presburger arithmetic, binary decision diagrams, symbolic model-checking

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15 Visibility sorting and compositing without splitting for image layer decompositions
John Snyder, Jed Lengyel
July 1998 SIGGRAPH '98: Proceedings of the 25th annual conference on Computer graphics
        and interactive techniques
Publisher: ACM
Full text available: pdf(591.53 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 71, Citation Count: 9

Keywords: compositing, kd-tree, nonsplitting layered decomposition, occlusion cycle,
occlusion graph, sprite, visibility sorting

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16 The Vesta parallel file system
Peter F. Corbett, Dror G. Feitelson
August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3
Publisher: ACM

Full text available: pdf(649.08 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                          terms, review

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 69, Citation Count: 33

The Vesta parallel file system is designed to provide parallel file access to application
programs running on multicomputers with parallel I/O subsystems. Vesta uses a new
abstraction of files: a file is not a sequence of bytes, but rather it can be ...

Keywords: data partitioning, parallel computing, parallel file system

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17 Adaptive rate controlled, robust video communication over packet wireless networks
G. R. Rajugopal, R. H. M. Hafez
June 1998 Mobile Networks and Applications, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: pdf(977.91 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                          terms, review

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation Count: 2

Video transmission over wireless packet networks is gaining importance due to the concept
of universal personal communication. Further, it is considered an important step towards
wireless multimedia. The challenge however is to achieve good video quality ...

18 A guided tour to approximate string matching
Gonzalo Navarro
March 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 1
Publisher: ACM

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 194, Downloads (12 Months): 1155, Citation Count: 73

We survey the current techniques to cope with the problem of string matching that allows errors. This is becoming a more and more relevant issue for many fast growing areas such as information retrieval and computational biology. We focus on online searching ...

Keywords: Levenshtein distance, edit distance, online string matching, text searching allowing errors

19 A comprehensive approach to signaling, transmission, and traffic management for wireless ATM networks
Anthony Burrell, P. Papantoni-Kazakos
September 2001 Wireless Networks, Volume 7 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(331.30 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation Count: 0

We propose and evaluate a signaling and transmission algorithmic system for wireless digital networks, in conjunction with a Traffic Monitoring Algorithm (TMA) for dynamic capacity allocation in multimedia ATM environments. The deployed signaling protocol ...

Keywords: multimedia environments, signaling and transmission, traffic monitoring, wireless

20 Image-driven simplification
Peter Lindstrom, Greg Turk
July 2000 ACM Transactions on Graphics (TOG), Volume 19 Issue 3
Publisher: ACM

Full text available: pdf(1.98 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 110, Citation Count: 27

We introduce the notion of image-driven simplification, a framework that uses images to decide which portions of a model to simplify. This is a departure from approaches that make polygonal simplification decisions based on geometry. ...

Keywords: image metrics, level-of-detail, polygonal simplification, visual perception

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